

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/016891

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/75 C12R1/125 C12P21/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N C12R C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, Sequence Search, WPI Data, PAJ, EMBASE, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/083125 A (GENENCOR INTERNATIONAL, INC; FERRARI, EUGENIO; HARBISON, CAROLE; RASHI) 9 October 2003 (2003-10-09)	1-4,7
Y	the whole document, in particular claims 1,2 and 6-8	5,6
X	WARNER JESSICA B ET AL: "CcpA-independent regulation of expression of the Mg2+-citrate transporter gene citM by arginine metabolism in Bacillus subtilis." JOURNAL OF BACTERIOLOGY, vol. 185, no. 3, February 2003 (2003-02), pages 854-859, XP002346326 ISSN: 0021-9193	1-4,7
Y	the whole document, in particular p.855, right-handed column, 2nd paragraph	5,6
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

23 September 2005

Date of mailing of the international search report

10/11/2005

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PCT/JP2004/016891

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ALI NAIMA OULD ET AL: "Regulation of the acetoin catabolic pathway is controlled by sigma L in Bacillus subtilis" JOURNAL OF BACTERIOLOGY, vol. 183, no. 8, April 2001 (2001-04), pages 2497-2504, XP002346327 ISSN: 0021-9193	1-4,7
Y	the whole document, in particular Table land p.2499, paragraph bridging left- and right-handed column -----	5,6
X	WACKER INGRID ET AL: "The regulatory link between carbon and nitrogen metabolism in Bacillus subtilis: Regulation of the gltAB operon by the catabolite control protein CcpA." MICROBIOLOGY (READING), vol. 149, no. 10, October 2003 (2003-10), pages 3001-3009, XP002346328 ISSN: 1350-0872	1-4,7
Y	the whole document, in particular Table 1 -----	5,6
X	LANGBEIN INES ET AL: "Specific interaction of the RNA-binding domain of the Bacillus subtilis transcriptional antiterminator GlcT with its RNA target, RAT" JOURNAL OF MOLECULAR BIOLOGY, vol. 293, no. 4, 5 November 1999 (1999-11-05), pages 795-805, XP002346329 ISSN: 0022-2836	1-4,7
Y	the whole document, in particular Table 3 -----	5,6
X	EGETER O ET AL: "CATABOLITE REPRESSION MEDIATED BY THE CATABOLITE CONTROL PROTEIN CCPA IN STAPHYLOCOCCUS XYLOSUS" MOLECULAR MICROBIOLOGY, BLACKWELL SCIENTIFIC, OXFORD, GB, vol. 21, no. 4, 1996, pages 739-749, XP002916663 ISSN: 0950-382X	1-4,7
Y	the whole document, in particular p.744 paragraph "Complementation of a B. subtilis ccpA-mutant strain by S. xylosus ccpA" ----- -/--	5,6

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LEBOEUF CELINE ET AL: "Characterization of the ccpA gene of Enterococcus faecalis: Identification of starvation-inducible proteins regulated by CcpA" JOURNAL OF BACTERIOLOGY, vol. 182, no. 20, October 2000 (2000-10), pages 5799-5806, XP002346330 ISSN: 0021-9193	1-4,7
Y	the whole document, in particular p. 5801 paragraph "Complementation of a B. subtilis ccpA mutant"	5,6
X	DE 199 51 765 A1 (SCHWEDER, THOMAS) 3 May 2001 (2001-05-03)	1-4,7
Y	the whole document	5,6
Y	DATABASE Geneseq 'Online! 29 January 2001 (2001-01-29), "Bacillus sp. KSM-S237 heat resistant alkaline cellulase DNA." XP002346334 retrieved from EBI accession no. GSN:AAA97493 Database accession no. AAA97493 see sequence	5,6
Y	DATABASE EMBL 'Online! 21 May 1993 (1993-05-21), "Bacillus sp. KSM-64 endo-1,4-beta-glucanase gene, complete cds; and unknown gene." XP002346335 retrieved from EBI accession no. EM_PRO:BSENOGLU Database accession no. M84963 see sequence	5,6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 03083125	A	09-10-2003	AU	2003228393	A1	13-10-2003
			CA	2480277	A1	09-10-2003
			EP	1495128	A1	12-01-2005
			JP	2005521407	T	21-07-2005
DE 19951765	A1	03-05-2001	WO	0131040	A2	03-05-2001
			EP	1224307	A2	24-07-2002

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